abcam

Product datasheet

Anti-Cytokeratin 8 (phospho S23) antibody [EP1629Y] ab76584

Recombinant   RabMAb®

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Overview

Product name	Anti-Cytokeratin 8 (phospho S23) antibody [EP1629Y]
Description	Rabbit monoclonal [EP1629Y] to Cytokeratin 8 (phospho S23)
Host species	Rabbit
Tested applications	**Suitable for:** Dot blot, WB, IHC-P
Species reactivity	**Reacts with:** Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HeLa lysates. IHC-P: Human stomach tissue. Dot Blot: Cytokeratin 8 (phospho S23) peptide.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free production

For more information **see here**.

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 0.05% BSA, 40% Glycerol (glycerin, glycerine), 59% PBS
Purity	Protein A purified
Clonality	Monoclonal

| Clone number	EP1629Y
Isotype	IgG

Applications

The Abpromise guarantee   Our **Abpromise guarantee** covers the use of ab76584 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Dot blot		1/1000.
WB		1/10000. Predicted molecular weight: 54 kDa.
IHC-P		1/3600. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

Target

Function	Together with KRT19, helps to link the contractile apparatus to dystrophin at the costameres of striated muscle.
Tissue specificity	Observed in muscle fibers accumulating in the costameres of myoplasm at the sarcolemma membrane in structures that contain dystrophin and spectrin. Expressed in gingival mucosa and hard palate of the oral cavity.
Involvement in disease	Cirrhosis
Sequence similarities	Belongs to the intermediate filament family.
Post-translational modifications	Phosphorylation on serine residues is enhanced during EGF stimulation and mitosis. Ser-74 phosphorylation plays an important role in keratin filament reorganization. O-glycosylated. O-GlcNAcylation at multiple sites increases solubility, and decreases stability by inducing proteasomal degradation. O-glycosylated (O-GlcNAcylated), in a cell cycle-dependent manner.
Cellular localization	Cytoplasm. Nucleus, nucleoplasm. Nucleus matrix.

Images

Western blot - Anti-Cytokeratin 8 (phospho S23) antibody [EP1629Y] (ab76584)
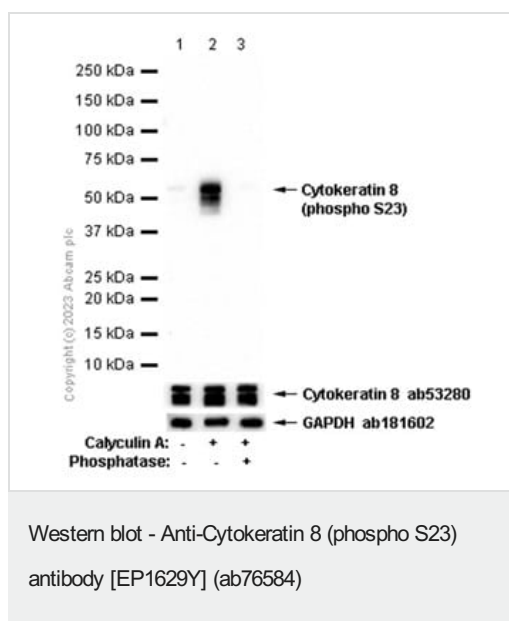
All lanes : Anti-Cytokeratin 8 (phospho S23) antibody [EP1629Y] (ab76584) at 1/10000 dilution

Lane 1 : Untreated HeLa (Human epithelial cells from cervix adenocarcinoma) whole cell lysate

Lane 2 : HeLa treated with 100nM Calyculin A for 30mins whole cell lysate

Lane 3 : HeLa treated with 100nM Calyculin A for 30mins whole cell lysate, then the membrane treated with Alkaline Phosphatase for 1 hour
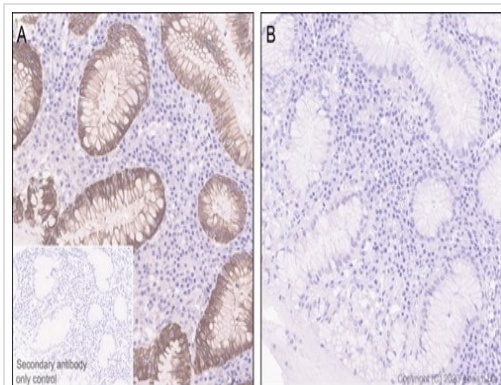
Lysates/proteins at 15 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 54 kDa
**Observed band size:** 54 kDa

Exposure time: 7 seconds

Blocking and diluting buffer and concentration: 5% NFDM/TBST.

Immunohistochemical analysis of paraffin-embedded Human stomach tissue labeling Cytokeratin 8 with ab76584 at 1/3600 dilution (0.035 µg/ml) followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). The section was incubated with ab76584 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin. Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.
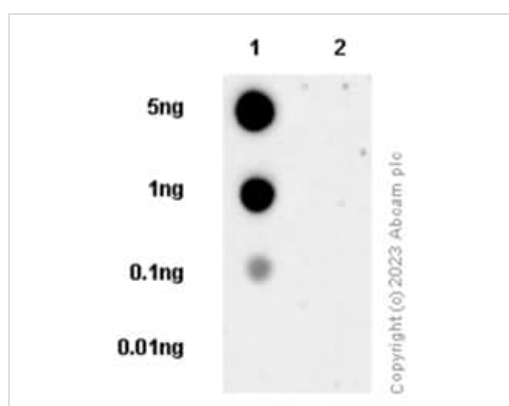
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 8 (phospho S23) antibody [EP1629Y] (ab76584)

Dot blot analysis of Cytokeratin 8 (phospho S23) using ab76584 at 1/1000 dilution, followed by a Goat Anti-Rabbit IgG (H+L) Peroxidase conjugated (**ab97051**) at 1/100,000 dilution. Blocking and dilution buffer: 5% NFDM/TBST. Exposure time: 180s.

Lane 1: Cytokeratin 8 (phospho S23) peptide

Lane 2: EGFR non-phospho peptide

Dot Blot - Anti-Cytokeratin 8 (phospho S23) antibody [EP1629Y] (ab76584)

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